

Date: Mon, 21 Mar 94 04:30:02 PST  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V94 #311  
To: Info-Hams

## Info-Hams Digest

Mon, 21 Mar 94

Volume 94 : Issue 311

## Today's Topics:

ANS-078 BULLETINS  
y Hams at NASA/AMES RC?  
BAYCOM <-> NOS, YES!

Difference between cordless phone and cellular phone?

HAM word origin!...

help

## Long directories

## Phonetic Alphabets

Ramsey Radio FAQs and info

## Reciprocal Licenses (2 msgs)

WANTED: List of Cellular Freqs, Channels, etc.

Why no 10 meter activity?? (2 msgs)

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>

Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>

Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available (by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

Date: 20 Mar 94 16:44:24 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: ANS-078 BULLETINS  
To: info-hams@ucsd.edu

SB SAT @ AMSAT \$ANS-078.01  
PHASE-3D STATUS REPORT

HR AMSAT NEWS SERVICE BULLETIN 078.01 FROM AMSAT HQ  
SILVER SPRING, MD MARCH 19, 1994  
TO ALL RADIO AMATEURS BT

BID: \$ANS-078.01

AMSAT PHASE 3-D INTERNATIONAL SATELLITE BUILDERS MEET IN  
MARBURG--PROPELLANT TANKS DELIVERED

During the week of February 10-16, 1994, Dr. Karl Meinzer, DJ4ZC, AMSAT-DL President and Project Leader for the International AMSAT Phase-3D satellite, and Werner Haas, DJ5KQ, Vice-President of AMSAT-DL hosted a working meeting in Marburg, Germany to discuss recent progress on the project. Agenda items centered primarily around the spacecraft's electronic systems including the on-board computer (IHU) and RUDAK systems, as well as the progress now being made by team members on the spacecraft's other electronic modules.

Also during the meeting, the team took delivery of P3-D's main propellant tanks. The tanks were manufactured in Russia under contract from AMSAT-DL and in accordance with AMSAT specifications. Seven tanks were delivered, although one had been subjected to a destructive pressure test by its Russian manufacturer.

Not only have all the propellant tank specifications been fully achieved, but they've actually been significantly surpassed. Each tank can accommodate almost 50 liters of propellant. Favorable conditions for the purchase and delivery of these tanks was arranged through the efforts of AMSAT-UA (Russia). Following a brief inspection, the tanks were immediately shipped to Orlando, Florida, where integration of the satellite is now slated to begin this summer.

Dick Jansson, WD4FAB, AMSAT-NA Vice-President for Engineering, also attended the meeting, principally to discuss various aspects of the satellite's structure with Dr. Meinzer and Konrad Mueller, DG7FDQ. He reported on the good progress of the flight model structure's construction, currently underway at Weber State University in Utah.

Also in attendance were Lyle Johnson, WA7GXD, Peter Guelzow, DB2OS, and Gerhard Metz, DG2CV. Lyle is known through his work with the Tucson Amateur Packet Radio (TAPR) group (which he co-founded) as well as for his work on the Microsats and on the P3-D GPS project. After much discussion, the team decided to again employ a cable wiring harness arrangement for Phase 3-D, similar to that used on A0-10 and A0-13, rather than an AART-based LAN design. However, the team decided to also fly a CAN bus and DB2OS's experimental LAN controller as part of the spacecraft's digital (RUDAK) transponder.

In a related decision, the group concluded that the A0-10/A0-13 1802-based Internal Housekeeping Unit (IHU) computer design would still be adequate for P3-D with some minor modifications. Lyle Johnson

announced his willingness to redesign the IHU and to construct a flight unit. His offer was greatfully accepted.

Other meeting items centered on P3-D's RUDAK work now being done by Peter Guelzow, Gerhard Metz, and Dr. Stefan Eckart, DL2MDL. This team has now decided to build two RUDAKs. The first will be a user-oriented digital communications module constructed by Lyle Johnson, in close cooperation with Peter Guelzow. This RUDAK, which has yet to be formally named, will be the one most P3-D satellite users will operate. A second, more experimental RUDAK (called RUDAK-E), will be built in Germany. It will promote experiments with advanced high speed modems, Digital Signal Processing (DSP) techniques, and new communications protocols.

In a host of other issues, Daniel Orban, ON4AOD, discussed details of the 24 GHz transmitter. Konrad Hupfer, DJ1EE, reported his progress in building the 250 watt U-Band (70 cm) final amplifier. Werner Haas displayed his first flight hardware consisting of two command receivers, a digital section, and the 70 cm exciter that will drive Konrad's 70 cm final amplifier. Freddy de Guchteneirie, ON6UG, reported his progress on the construction of dual V-Band and U-Band receiver "front-ends". Dr. Matjaz Vidmar, S51MV, reported he has now begun construction of the HF-Band, C-Band and S-Band receivers. He expects to deliver working prototypes in May.

While much work still remains to be done, Dr. Meinzer expressed his approval and sincere thanks to all participants for their superb work and close cooperation on this vitally important AMSAT international project. A complete text of this meeting's minutes has been prepared by Peter Guelzow, and has since been translated by Don Moe, DJ0HC/KE6MN. The text will be made available to the various international AMSAT Journals for possible inclusion in their upcoming editions.

[The AMSAT News Service (ANS) would like to thank Peter Guelzow, DB2OS, Don Moe, DJ0HC/KE6MN, Lyle Johnson, WA7GXD, and Keith Baker, KB1SF, for their assistance in writing, translating, and formatting the information contained in this bulletin item.]

/EX  
SB SAT @ AMSAT \$ANS-078.02  
ITAMSAT-OSCAR-26 PROBLEM

HR AMSAT NEWS SERVICE BULLETIN 078.02 FROM AMSAT HQ  
SILVER SPRING, MD MARCH 19, 1994  
TO ALL RADIO AMATEURS BT  
BID: \$ANS-078.02

ITAMSAT-OSCAR-26 (IO-26) Ground Team Discovers Problem

Starting last week the PSK modulation on the primary trasmitter became more and more difficult to decode. A residual carrier and lower output power seem to indicate a failure in the PSK balanced modulator, being worse at the current low power setting. Increasing the power level makes the de-modulation better but is not acceptable due to power budget constraints. Ground controllers decided to switch to the secondary PSK trasmitter on 435.822 MHz. The first two passes over Italy confirmed the correct operation of the spacecraft and WOD are being taken to analize the performance of the satellite in this new configuration. BBS is working as usual and status bulletin will be uploaded in the next few days.

73 de ITAMSAT (I0-26) Command Team

/EX  
SB SAT @ AMSAT \$ANS-078.03  
A0-13 OPERATIONS NET SCHEDS

HR AMSAT NEWS SERVICE BULLETIN 078.03 FROM AMSAT HQ  
SILVER SPRING, MD MARCH 19, 1994  
TO ALL RADIO AMATEURS BT  
BID: \$ANS-078.03

#### Current AMSAT Operations Net Schedule For A0-13

AMSAT Operations Nets are planned for the following times. Mode-B Nets are conducted on A0-13 on a downlink frequency of 145.950 MHz. If, at the start of the OPS Net, the frequency of 145.950 MHz is being used for a QSO, OPS Net enthusiasts are asked to move to the alternate frequency of 145.955 MHz.

Date	UTC	Mode	Phs	NCS	Alt NCS
26-Mar-94	2130	B	084	WA5ZIB	W5IU

Any stations with information on current events would be most welcomed. Also, those interested in discussing technical issues or who have questions about any particular aspect of OSCAR statellite operations, are encouraged to join the OPS Nets. If neither of the Net Control Stations show up, any participant is invited to act as the NCS.

#### A0-13 ZR0 Tests For March 1994

The following schedule of Mode "B" tests were chosen for convenient operating times and favorable squint angles. The tests can be heard on 145.840 MHz. Andy McAlister (WA5ZIB) will conduct all the tests. Mode "JL" tests will no longer occur due to the failure of A0-13's 70CM transmitter.

Day	Date (UTC)	Time	Areas covered
-----	------------	------	---------------

Saturday	Mar. 26, 1994	2315 UTC	NA, SA
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Note that the dates and days are shown in "UTC". Any changes will be announced as soon as possible via the AMSAT HF and A0-13 Operations Nets.

All listener reports with date of test and numbers copied should be sent to Andy McAllister (WA5ZIB), AMSAT V.P. User Operations, 14714 Knights Way Drive, Houston, TX 77083-5640. A report will be returned verifying the level of accurate reception. An S.A.S.E. is appreciated but not required.

#### SSTV ON OSCAR 13

Slow scanners are invited to join the SSTV sessions on A0-13. The frequency is 145.955 MHz. The net meets at 45 minutes before Mode S, and on Mode B following Mode S on Saturdays and Sundays. Join those sessions or convey your wishes for other skeds to wb6llo@amsat.org, and he will coordinate your efforts.

/EX

SB SAT @ AMSAT \$ANS-078.04  
SAREX STS-59 CORRECTION

HR AMSAT NEWS SERVICE BULLETIN 078.04 FROM AMSAT HQ  
SILVER SPRING, MD MARCH 19, 1994  
TO ALL RADIO AMATEURS BT  
BID: \$ANS-078.04

#### Correction To NASA Landline BBS Phone Number

Last week's AMSAT News Service (ANS) ANS-071.02 bulletin referred to the NASA Info Board BBS at Johnson Space Center as a source of information for Keplerian elements and SAREX bulletins. This bulletin board system was operated and maintained by the Public Affairs Office of the Johnson Space Center and is now no longer operational.

Johnson Space Center Amateur Radio Club is currently seeking a way to get a small BBS up and running prior to the flight. As soon as a system is established, an announcement will be issued to promulgate and distribute the telephone number.

73,  
Dale Martin, KG5U @ KA5KTH.#setx.tx.usa.na  
Sec'y, Johnson Space Center ARC  
Houston, Texas

/EX

SB SAT @ AMSAT \$ANS-078.05  
WEEKLY OSCAR STATUS REPORTS

HR AMSAT NEWS SERVICE BULLETIN 078.05 FROM AMSAT HQ  
SILVER SPRING, MD MARCH 19, 1994  
TO ALL RADIO AMATEURS BT  
BID: \$ANS-078.05

Weekly OSCAR Status Reports: 19-MAR-94

A0-13: Current Transponder Operating Schedule:

M QST \*\*\* A0-13 TRANSPONDER SCHEDULE \*\*\* 1994 Mar 19-Apr 04  
Mode-B : MA 0 to MA 90 |  
Mode-BS : MA 90 to MA 120 |  
Mode-S : MA 120 to MA 122 |<- S beacon only  
Mode-S : MA 122 to MA 145 |<- S transponder; B trsp. is OFF  
Mode-S : MA 145 to MA 150 |<- S beacon only  
Mode-BS : MA 150 to MA 180 | Alon/Alat 180/0  
Mode-B : MA 180 to MA 256 |  
Omnis : MA 230 to MA 30 | Move to attitude 235/0, Apr 04 240/0, Apr 04  
[G3RUH/DB2OS/VK5AGR]

F0-20: The following is the current schedule for transponder operations:  
ANALOG MODE:

23-MAR-94 7:52 -TO- 30-MAR-94 8:15 UTC

DIGITAL MODE: Unless otherwise noted above.  
[Kazu Sakamoto (JJ1WTK) qga02014@niftyserve.or.jp]

A0-16: Operating normally. [WH6I]

L0-19: Operating normally. [WH6I]

I0-26: Operating normally. [WH6I]

K0-23: Operating normally. [WH6I]

The AMSAT NEWS Service (ANS) is looking for volunteers to contribute weekly OSCAR status reports. If you have a favorite OSCAR which you work on a regular basis and would like to contribute to this bulletin, please send your observations to WD0HHU at his CompuServe address of 70524,2272, on INTERNET at wd0hhu@amsat.org, or to his local packet BBS in the Denver, CO area, WD0HHU @ W0LJF.#NECO.CO.USA.NOAM. Also, if you find that the current set of orbital elements are not generating the correct AOS/LOS times at your QTH, PLEASE INCLUDE THAT INFORMATION AS WELL. The information you provide will be of value to all OSCAR enthusiasts.

/EX

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Date: 21 Mar 94 07:40:32 GMT  
From: dog.ee.lbl.gov!agate!howland.reston.ans.net!noc.near.net!news.delphi.com!  
usenet@ucbvax.berkeley.edu  
Subject: any Hams at NASA/AMES RC?  
To: info-hams@ucsd.edu

There are quite a few hams at NASA/Ames. They do have an active club with a pretty decent antenna farm. I just recently moved out here and don't have a point of contact right here, but will email you one in a few days.

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Date: 21 Mar 94 00:08:54 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: BAYCOM <-> NOS, YES!  
To: info-hams@ucsd.edu

About 2 weeks ago I launched the following inquiry on Info-Hams Digest:

>Hello. If you have been able to use a Baycom (Bypac) type  
>modem with KA9Q/NOS (for example NOS 1.10x15) I would like  
>to know how it is done...

I received several responses and am pleased to report that I have succeeded in getting NOS to work with the Baycom modem. What I needed was an ax25 driver program (ax256drv.zip of January 3, 1993 downloaded from grivel.une.edu.au / 129.180.4.7) written by Pawel Jalocha, SP9VRC. The only glitch encountered was resolved by a simple change of driver software interrupt from the default of 60 to 63 to work with my i386SX laptop.

After more than a week's experience, I am finding that the Baycom (with ax25 driver) works as well as my MFJ 1278 and PacComm TNCs for 1200 bps. It is connected to a Yaesu FT-470 handheld through a 25 watt amplifier to a simple j-pole antenna. (For regular packet operation I have had no difficulty using the Baycom with the laptop running the Eskay SP and MUBAY software, but I am not able to make the modem work with the Bypac program that was bundled with it.)

The reports from other hams were generally very positive

regarding use of the Baycom modem with NOS, although there was an instance of heavy packet loss noted in conjunction with an HTX-202 HT. Another ham expressed particular satisfaction with the Yaesu FT-470, which duplicates my experience.

I am grateful for the work of Pawel Jalocha in writing the ax25 driver, and, of course, the work of KA9Q, WG7J and other contributors for producing the NOS program.

--- Andy / VE1COR  
Andrew Cornwall  
Nova Scotia Department of Education  
Nova Scotia, Canada

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Date: 21 Mar 94 08:18:28 GMT  
From: agate!howland.reston.ans.net!newsserver.jvnc.net!tiger!sun330.snu.ac.kr!  
usenet@ucbvax.berkeley.edu  
Subject: Difference between cordless phone and cellular phone?  
To: info-hams@ucsd.edu

I think cellular phone is something like the repeater-aided communication in amateur radio.  
so, what is the uplink/downlink frequency (or what the magic is that)?

and one more question:  
In cellular phone, I can hear his or her voice as well as mine,  
What makes it possible?

Minsuk Lee (HL1ITJ)  
mslee@archi.snu.ac.kr

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Date: 20 Mar 94 22:21:06 GMT  
From: utcsri!newsflash.concordia.ca!altitude!altitude!not-for-mail@uunet.uu.net  
Subject: HAM word origin!...  
To: info-hams@ucsd.edu

Hello everybody....

The origin of the word 'HAM' come from the first letters of the first three guys to experiment radio. They were from the Harvard Radio Club... Their names are Hyman, Almy and Murray.

Originally, they named their telegraph station "HYMAN-ALMY-MURRAY" but it was too long, so they reduce it to "HY-AL-MU",

but there was a problem : a mexican boat was named "HYALMO", so there was a little confusion... So, they finally named their station "HAM"...

Oh yeah... That was in 1908....

73's de Alex, ve2cnd@CAM.ORG

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Date: 21 Mar 94 02:19:09 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: help  
To: info-hams@ucsd.edu

help

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Date: 20 Mar 1994 18:38:09 GMT  
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!noc.near.net!news.delphi.com!  
gilbaronw0mn@network.ucsd.edu  
Subject: Long directories  
To: info-hams@ucsd.edu

wy1z@netcom.com

Scott

Has again posted the LONG ftp directory. Is there no one else that is offended by the severe breach of netiquette. The way this should be done is to post a pointer and tell me how to get it. This is a severe waste of time and MONEY for many sites and many folks. Please tell him to stop. I think he should lose posting privileges for a week if he continues to do this. It happens frequently and is getting longer.

Gil Baron, El Baron Rojo, W0MN Rochester,MN  
"Bailar es Vivir"  
PGP2.3 key at key servers or upon request

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Date: 19 Mar 94 05:15:21 GMT  
From: agate!howland.reston.ans.net!pipex!uknet!brunel!news@ucbvax.berkeley.edu  
Subject: Phonetic Alphabets  
To: info-hams@ucsd.edu

In article <2mag1b\$dj@agate.berkeley.edu>, <stoll@OCF.Berkeley.EDU> writes:  
> Path:  
brunel!uknet!EU.net!howland.reston.ans.net!cs.utexas.edu!swrinde!ihnp4.ucsd.edu  
!agate!stoll

> From: stoll@OCF.Berkeley.EDU (Cliff Stoll)  
> Newsgroups: rec.radio.amateur.misc  
> Subject: Phonetic Alphabets  
> Date: 17 Mar 1994 21:04:43 GMT  
> Organization: U.C. Berkeley Open Computing Facility  
> Lines: 26  
> Message-ID: <2maglb\$dj@agate.berkeley.edu>  
> NNTP-Posting-Host: bigbang-ether.berkeley.edu  
>  
> I found these posted to a bbs, so I checked 'em & added references.  
> Enjoy!  
>  
> Cliff Stoll K7TA  
> (please don't send me e-mail for a while, my mailbox overfloweth)  
>  
>  
> Phonetic Alphabet for World War II:  
> [source: ARRL 1945 Handbook pg 359 "Used by Armed services of USA & GB"]  
>  
> Able, Baker, Charlie, Dog, Easy, Fox, George, How, Item,  
> Jig, King, Love, Mike, Nan, Oboe, Peter, Queen, Roger,  
> Sugar, Tare, Uncle, Victor, William, Xray, Yoke, Zebra.  
>  
>  
> Phonetic Alphabet for NATO: [source??]  
>  
> Alfa, Bravo, Charlie, Delta, Echo, Foxtrot, Gold, Hotel, India,  
> Juliet, Kilo, Lima, Mike, November, Oscar, Papa, Quebec, Romeo,  
> Sierra, Tango, Uniform, Victor, Whiskey, Xray, Yankee, Zulu.  
>  
>  
> Phonetic Alphabet for ITU: [from ARRL '93 Handbook, pg 37-7]  
>  
> (same as that NATO list except "Golf" instead of "Gold"  
>  
The NATO alphabet is identical. It should be Golf, not Gold. Notice  
that Quebec should not be pronounced correctly (kwe-bec instead of  
ke-bec)!

Nick, G7ENS

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Date: 21 Mar 94 02:09:42 GMT  
From: dog.ee.lbl.gov!agate!usenet.ins.cwru.edu!cleveland.Freenet.Edu!  
ei938@ucbvax.berkeley.edu  
Subject: Ramsey Radio FAQs and info  
To: info-hams@ucsd.edu

Ham Radio Folks,

This is my first try on this newsgroup. As the proud new owner of a Ramsey Radio FX-146 (2m) that just finally got working, I'd like to get more info on what can be done with the radio. It seems to work OK, but I'd sure like to add a few modifications. If there an FTP site available or a FAQ on all the neat modifications and upgrades for Ramsey Radios?

I understand from the radio club that there are a couple of bugs in the design that folks have developed fixes for

Please post info on Ramsey Radio, particularly the FX-146, or better yet, send email to me directly and I'll post a compilation of responses. Thanks In Advance for your help.

Andrew Lynch

ac408@dayton.wright.edu

Is there any where else I can find info on this topic? TIA!

al

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Date: 20 Mar 94 17:40:10 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Reciprocal Licenses  
To: info-hams@ucsd.edu

Does anyone out there know how to go about getting a reciprocal license for England? I expect to visit there in a couple of months and would like to try transmitting from there.

Thanks

KB7SJ0/AG  
RGORDON@CONNECTINC.COM

Sent: March 20, 1994 9:26 am PT

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Date: 20 Mar 94 09:10:36 GMT  
From: agate!howland.reston.ans.net!pipex!demon!g8sjp.demon.co.uk!  
ip@ucbvax.berkeley.edu  
Subject: Reciprocal Licenses

To: info-hams@ucsd.edu

In article <9403201740.AA01020@sword.connectinc.com>  
rgordon@connectinc.COM writes:

> Does anyone out there know how to go about getting a reciprocal  
> license for England? I expect to visit there in a couple of months and  
> would like to try transmitting from there.

The people (in the UK) to contact are:

Radio Licencing Centre  
Subscription Services Ltd  
PO Box 885  
BRISTOL, BS99 5LG

Helpdesk: +44-272-258333

You may, however, be wise to consult ARRL who could make a lot of relevant information available to you.

--  
Iain Philippss

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Date: 20 Mar 94 18:24:26 GMT  
From: dog.ee.lbl.gov!ihnp4.ucsd.edu!usc!crash!slic!mikey@ucbvax.berkeley.edu  
Subject: WANTED: List of Cellular Freqs, Channels, etc.  
To: info-hams@ucsd.edu

I am in need of the list of Cellular channel assignments with the freqs, and the control, status, data, etc. for each. Anyone able to point me in the correct direction?

And then as I live in Sandy Eggo, I'd like to get a list of the correct cell sites and the channels active at each site. Ya I know, I'm not asking for much. I do have a comma delimitted files for San Diego from Oct. 93 if anyone is interested.

Follow-up pointed to me...Thanks...

-- Mike Shirley San Diego, CA USA HAM:WB6WUI  
mikey@slic.cts.com guaranteed: mikey@crash.cts.com  
Robomail: mikey-pkey@slic.cts.com pgp-info@slic.cts.com

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Date: Tue, 15 Mar 1994 16:21:02 GMT  
From: ihnp4.ucsd.edu!sdd.hp.com!hpscit.sc.hp.com!hplextra!hpldsla!  
brunob@network.ucsd.edu  
Subject: Why no 10 meter activity??  
To: info-hams@ucsd.edu

We are approaching Sunspot minima and MUF during this period of time is at his low. Now is a time of real DX hunting with endles time spining the dial of RX to be rewarded with unexcpeted new country.  
With beam you may have better chances especialy in south to north direc. however be pationed and perssistent - in another 2 to 3 years 10 will be back in all his glory. Follow the sunspot # on WWV or beter observ by yourself with appropriate equipment - sun filters - since you can get blind without them.  
from the log of AA6AD

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Date: 20 Mar 94 09:05:51 GMT  
From: agate!howland.reston.ans.net!pipex!demon!g8sjp.demon.co.uk!  
ip@ucbvx.berkeley.edu  
Subject: Why no 10 meter activity??  
To: info-hams@ucsd.edu

In article <017209JVQBRRRBFKXDGV@theden.c>  
sschultz@theden.c "MajorBBS: Scott S." writes:

> time you want. There is also a phenomenon called Sporadic E. This is  
> where there might seem to be a "pipeline" to specific areas. These

Umm ... 'sporadic', methinks ....

> CQ a few times. If everyone thinks the band is dead and no one calls CQ,  
> then an otherwise active band may only SEEM dead! You might be surprised  
> at the results! Good Luck es Good DX. Scott, N0UVM

Well, you could do that. You could also monitor the frequency of a distant beacon - that seems to work quite well for me :-) Of course, there's always DX Cluster ....

--  
Iain Philippss

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End of Info-Hams Digest V94 #311

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